

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 06-092870

(43)Date of publication of application : 05.04.1994

(51)Int.Cl.

A61K 47/34  
A61K 31/505

(21)Application number : 04-246392

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(22)Date of filing : 16.09.1992

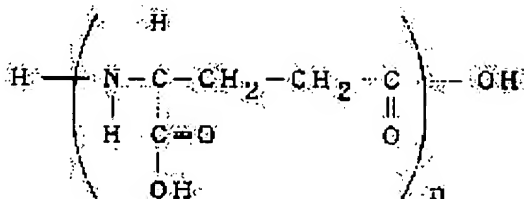
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## (54) HIGH POLYMER AS CARRIER OF MEDICINE AND SUSTAINED RELEASE CARCINOSTATIC AGENT

## (57)Abstract:

PURPOSE: To obtain a poly- $\gamma$ -glutamic acid which is a sale high polymer for carrying a medicine capable of retaining pharmacodynamic effects for a long time.

CONSTITUTION: A poly- $\gamma$ -glutamic acid (hereinafter referred to as  $\gamma$ -PGA) expressed by the formula [(n) is positive integer] or its salt is obtained by polymerizing an amino group of glutamic acid with a  $\gamma$ -carboxyl group thereof by formation of peptide bond and has high accumulating property to cancer tissue and is excellent in sustained release property of medicine and exhibits biodegradability. A carcinostatic agent (e.g. 5-fluorouracil) is carried through a chemical bond such as ester bond or amide bond onto  $\gamma$ -PGA and the medicine is fed to a cancer tissue. A carcinostatic agent carried on  $\gamma$ -PGA sustains carcinostatic action for a long period by gradually hydrolyzing the ester bond, etc. The dose of the medicinal composition containing  $\gamma$ -PGA as a main ingredient is 50-1500mg/adult daily.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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